

## Lesson Plan in Brief

Enclosed you will find a complete lesson plan that may be used during your Teach-In event.

The lesson plan has three objectives. At the end of the lesson students should be able to:

- Describe some of the effects of alcohol on the brain and body
- Identify effective alternatives to using alcohol
- Work in groups to develop an effective alcohol prevention message.

This lesson plan contains a number of different activities. You may do one or more of these activities, depending on your time and comfort level with the content. The suggested activities include:

### **Introduction: Brainstorm Alternatives to Drinking (10 minutes total)**

- Guide a discussion on what to say or do if someone pressures students to take a drink
- Ask students to complete the sentence "Why drink when we could..."

### **Discussion (5 minutes total)**

- Ask students to share reasons they believe young people drink
- Have students complete the enclosed True/False quiz

### **Presenting Facts/Evaluating Statements (10 minutes)**

- Distribute an enclosed handout and work as a group to determine answers to True/False quiz (from Introduction)

### **Getting the Message Out (5 minutes)**

- Brainstorm with students methods they could use to share the risks of underage alcohol use and alternative activities with others

### **Additional materials (may be sent home for students to work on with parents, or used by teachers in additional class periods)**

- Word find puzzle, The Dangers of Alcohol
- Fill in the blanks/unscramble the word puzzle, The Dangers of Alcohol
- Crossword puzzle, Too Smart to Start
- Word find puzzle, Too Smart to Start

# ALCOHOL, WHY DRINK WHEN YOU CAN... A Guided Discussion on Underage Alcohol Consumption

## Introduction: Brainstorm Alternatives to Drinking (10 minutes)

- **(5 minutes)** Guide a brief discussion in which students investigate what to say or do if someone pressures them to take a drink. Use [Talking Points for Leaders](#) to help you.

### Talking Points for Leaders

Suggested Questions	Possible responses	Leader's Points
Why do you think some young people who don't want to drink feel pressured to drink?	<p>They want a certain person to like them.</p> <p>They don't want to be different.</p> <p>They don't want to create a big scene.</p>	<p>There are other things to do together that would be fun and don't involve drinking. Try some of those.</p> <p>You can choose not to drink – most young people don't!</p> <p>Sometimes it is easier to use a one-liner that allows you to say no without making a big scene.</p>
What are some things to say if someone pressures you?	Students may suggest one or more of the ideas in the next column. Be sure they get a chance to discuss all of them.	<p>Some possible alternatives:</p> <ul style="list-style-type: none"> <li>☺ No thanks.</li> <li>☺ I don't feel like it – do you have any soda?</li> <li>☺ Alcohol's NOT my thing.</li> <li>☺ Are you talking to me? FORGET it.</li> <li>☺ Why do you KEEP pressuring me when I've said NO?</li> </ul>

- **(5 minutes)** Write the sentence starter "Why drink when we could ..." on the chalkboard. Challenge students to suggest a wide variety of alternative choices to complete the sentence, such as:
  - "Why drink when we could [play soccer](#)."
  - "Why drink when we could [go to the movies](#)?"

## Discussion

- **(3 minutes)** In a brief discussion, ask students to share the reasons they believe young people drink. Use [Talking Points for Leaders](#) to help you with the discussion.

### Talking Points for Leaders

Suggested Questions	Possible Responses	Leader's Points
<ul style="list-style-type: none"> <li>Why do you think young people start to drink?</li> <li>Why do you think someone you know would drink?</li> </ul>	<ul style="list-style-type: none"> <li>Peer pressure – some friends and classmates want you to do it.</li> <li>We see our parents or other adults drinking.</li> <li>We want to appear grown-up.</li> <li>We see older teens drinking.</li> <li>Alcohol is easy to get – someone always brings it to a party.</li> <li>Ads show young people drinking</li> <li>We see ads everywhere that make it look cool to drink and the way to be popular and have friends.</li> <li>We want to see what it tastes like.</li> </ul>	<ul style="list-style-type: none"> <li>Actually, many studies have shown that the large majority of people your age – most of them – DO NOT drink, or get drunk! In 8<sup>th</sup> grade for example, 80% of students report they have not drunk alcohol in the past month.</li> <li>The media's glamorous portrayal of alcohol encourages many teens to believe that drinking will make them popular, attractive, happy, and "cool."</li> <li>Alcohol advertising makes products look appealing to make sales.</li> </ul>

- **(2 minutes)** Follow the discussion by having students complete the True/False quiz, [What's Your Alcohol IQ?](#), to check their alcohol knowledge. They should save their quizzes for the next activity.

### Presenting Facts/Evaluating Statements: Effect of Alcohol on the Brain (10 minutes)

Distribute [Alcohol and Your Brain](#). Work with students to find information on this Student Information sheet to assess the truth of each statement in the quiz, [What's Your Alcohol IQ?](#) Make sure each of the 12 statements is addressed in the discussion. The Answer Key includes information to help you guide this discussion.

**Getting the Message Out (5 minutes)**

Brainstorm with students methods they could use to share their information and alternative activities with others. List their ideas on the chalkboard for teachers to use in another class period. Ideas might include:

- Create posters to post in classrooms or on community bulletin boards
- Create brochures to share in the school library
- Create and perform skits in a school-wide assembly
- Create a school bulletin board
- Create a message for a PTA newsletter inviting parents to talk about this topic with their children.
- Create a message parents could have inserted into a company newsletter or posted on a company bulletin board.

**NOTE:** Share these ideas with teachers to help students implement some of them in school or at home.

**Share with Parents (2 minutes)**

Distribute the **Student Puzzle Page** and invite students to work with their parents and family members to complete the puzzle at home. Tell students to use the information on the puzzle to share what they learned today in class.

## What's Your Alcohol IQ?

**Directions:** Below are a dozen statements about how alcohol affects a person's brain activities. Some of these are misconceptions, or mistaken beliefs. Do you know which are true and which are false? Circle TRUE or FALSE for each statement.

1. Alcohol is a stimulant.

TRUE

FALSE

2. Under the influence of alcohol, everything may appear to be fuzzy; drinkers may slur their words and have difficulty hearing, tasting and smelling.

TRUE

FALSE

3. Under the influence of alcohol, a drinker's ability to think, speak and move may slow way down.

TRUE

FALSE

4. Under the influence of alcohol, drinkers are usually calm, thoughtful and easygoing.

TRUE

FALSE

5. Drinking alcohol over a long period of time may damage a person's self-control and ability to plan, think and make decisions.

TRUE

FALSE

6. Alcohol does not affect memory.

TRUE

FALSE

7. Alcohol may make it difficult for drinkers to keep their balance or hold on to things.

TRUE

FALSE

8. Under the influence of alcohol a drinker may be emotional and weepy.

TRUE

FALSE

9. Alcohol will help a person sleep.

TRUE

FALSE

10. Drinking alcohol will help a person lose weight.

TRUE

FALSE

11. People attending a winter football game should drink alcohol to keep warm.

TRUE

FALSE

12. The more alcohol people drink, the hungrier and thirstier they will be.

TRUE

FALSE

## What's Your Alcohol IQ?

**Directions:** Below is the **Answer Key** to the Student Handout: What's Your Alcohol IQ? The answers are in bold type and underlined.

1. Alcohol is a stimulant.

TRUE

FALSE

**CEREBRAL CORTEX** – Alcohol is a central nervous system depressant. It can appear to be a stimulant because, initially, it depresses the part of the brain that controls inhibitions.

2. Under the influence of alcohol, everything may appear to be fuzzy; drinkers may slur their words and even have difficulty hearing, tasting and smelling.

TRUE

FALSE

**CEREBRAL CORTEX** – Alcohol slows down the cerebral cortex as it works with information from your senses.

3. Under the influence of alcohol, a drinker's ability to think, speak and move may slow way down.

TRUE

FALSE

**CENTRAL NERVOUS SYSTEM** – When you think of something you want your body to do, the central nervous system — the brain and the spinal cord — sends a signal to that part of the body. Alcohol slows down the central nervous system, making you think, speak, and move slower.

4. Under the influence of alcohol, drinkers are usually calm, thoughtful and easygoing.

TRUE

FALSE

**FRONTAL LOBES** – When alcohol affects the frontal lobes of the brain, you may find it hard to control urges. You may act without thinking or even become violent. Drinking alcohol over a long period of time can damage the frontal lobes forever.

5. Drinking alcohol over a long period of time may damage a person's self-control and ability to plan, think and make decisions.

TRUE

FALSE

**FRONTAL LOBES** – The brain's frontal lobes are important for planning, forming ideas, making decisions, and using self-control. Drinking alcohol over a long period of time can damage the frontal lobes forever.

Answer Key to Student Handout

6. Alcohol does not affect memory.

TRUE

FALSE

**HIPPOCAMPUS** – The hippocampus is the part of the brain where your memories are made.

- When alcohol reaches the hippocampus, you may have trouble remembering something you just learned, such as a name or a phone number. This can happen after just one or two drinks.
- Drinking a lot of alcohol quickly can cause a blackout — not being able to remember entire events, such as what you did last night.
- If alcohol damages the hippocampus, you may find it hard to learn and to hold on to knowledge.

7. Alcohol may make it difficult for drinkers to keep their balance or hold on to things.

TRUE

FALSE

**CEREBELLUM** – The cerebellum is important for coordination, thinking, and being aware. You may have trouble with these skills when alcohol enters the cerebellum. After drinking alcohol, your hands may be so shaky that you can't touch or grab things normally. You may lose your balance and fall.

8. Under the influence of alcohol a drinker may be emotional and weepy.

TRUE

FALSE

**FRONTAL LOBES** – The brain's frontal lobes are important for planning, forming ideas, making decisions, and using self-control. When alcohol affects the frontal lobes of the brain, you may find it hard to control urges. You may act without thinking or even become violent. Drinking alcohol over a long period of time can damage the frontal lobes forever.

9. Alcohol will help a person sleep.

TRUE

FALSE

**HYPOTHALAMUS** – The hypothalamus is a small part of the brain that does an amazing number of your body's housekeeping chores. Alcohol upsets the work of the hypothalamus. After drinking alcohol, blood pressure, hunger, thirst, and the urge to urinate increase while body temperature and heart rate decrease.

10. Drinking alcohol will help a person lose weight.

TRUE

FALSE

**HYPOTHALAMUS** – The hypothalamus is a small part of the brain that does an amazing number of your body's housekeeping chores. Alcohol upsets the work of the hypothalamus. After drinking alcohol, blood pressure, hunger, thirst, and the urge to urinate increase while body temperature and heart rate decrease.

11. People attending a winter football game should drink alcohol to keep warm.

TRUE

FALSE

**MEDULLA** – The medulla controls your body's automatic actions, such as your heartbeat. It also keeps your body at the right temperature.

Alcohol actually chills the body. Drinking a lot of alcohol outdoors in cold weather can cause your body temperature to fall below normal. This dangerous condition is called *hypothermia*.

12. The more alcohol people drink, the hungrier and thirstier they will be.

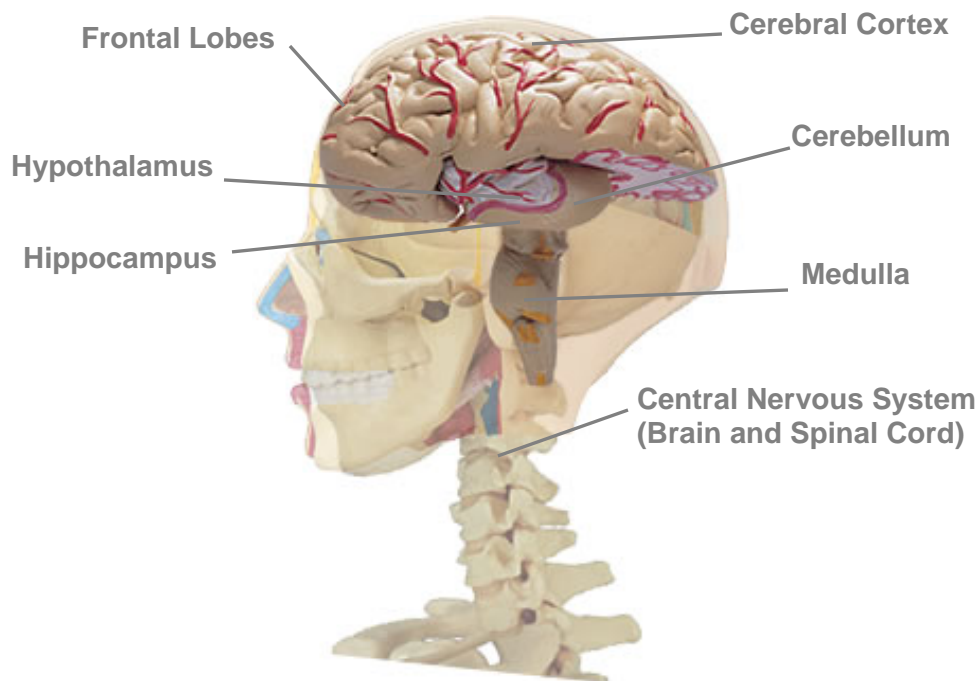
TRUE

FALSE

**HYPOTHALAMUS** – The hypothalamus is a small part of the brain that does an amazing number of your body's housekeeping chores. Alcohol upsets the work of the hypothalamus. After drinking alcohol, blood pressure, hunger, thirst, and the urge to urinate increase while body temperature and heart rate decrease.



## Alcohol and Your Brain



### Cerebral Cortex

The outer surface of the brain, the cerebral cortex works with information from your senses.

#### ***Your cerebral cortex on alcohol:***

- Your inhibitions are lowered due to alcohol's depressing effect. A small amount may make you feel relaxed and confident; but, before long, you're likely to talk too much, act silly and stupid, or lose judgment.
- Slows down the cerebral cortex.
- Your vision may get blurry; you may slur your words; and, you could have decreased hearing and trouble smelling and tasting.

### Central Nervous System

When you think of something you want your body to do, the central nervous system — the brain and the spinal cord — sends a signal to that part of the body.

#### ***Your central nervous system on alcohol:***

- Alcohol slows down the central nervous system.
- You will think, speak, and move slower.

### Frontal Lobes

The brain's frontal lobes are important for planning, forming ideas, making decisions, and using self-control. Drinking alcohol over a long period of time can damage the frontal lobes forever.

***Your frontal lobes on alcohol:***

- You may find it hard to control urges.
- You may become violent or act without thinking.

**Hippocampus**

Your memories are made in the hippocampus. A damaged hippocampus makes it harder to learn and hold on to knowledge.

***Your hippocampus on alcohol:***

- You may have trouble remembering something you just learned (a name, phone number). This can happen after just one or two drinks.
- You could experience a blackout — not being able to remember entire events, such as what you did last night — from drinking a lot of alcohol quickly.

**Cerebellum**

The cerebellum is important for coordination, thinking, and being aware.

***Your cerebellum on alcohol:***

- Your hands may be so shaky that you can't touch or grab things normally.
- You may lose your balance and fall.
- You may not know where you are.

**Hypothalamus**

The hypothalamus is a small part of the brain that does an amazing number of your body's housekeeping chores. Alcohol upsets the hypothalamus's work.

***Your hypothalamus on alcohol:***

- Blood pressure, hunger, thirst, and the urge to urinate increase.
- Body temperature and heart rate decrease.

**Medulla**

The medulla is your body's automatic pilot. It keeps your heart beating, lets you breathe without thinking about it, and keeps your body at the right temperature. People drink alcohol sometimes to keep warm. Drinking alcohol can seem like it makes you warmer, but actually alcohol chills the body. Drinking a lot of alcohol outdoors in cold weather can cause your body temperature to fall below normal. This dangerous condition is called *hypothermia*.

***Your medulla on alcohol:***

- Breathing and heart rate slows.
- Your temperature lowers.
- Drinking a lot of alcohol in a short time could shut down the medulla. You could go into a coma.

## The Dangers of Alcohol

**Directions:** The following words are hidden in this word search puzzle. Find the words and then complete the sentences below about the dangers of alcohol.

Alcohol  
Impair

black out  
depressant

brain  
judgment

communicate  
media message

make decisions  
problem solve

S	K	D	N	S	Q	S	J	S	E	P	E	I	V	C
B	N	D	E	U	E	U	J	D	H	V	O	E	U	I
R	S	O	K	P	D	B	E	K	L	A	K	G	X	C
N	I	M	I	G	R	L	P	O	U	Q	K	A	T	O
R	F	A	M	S	R	E	S	Y	O	W	C	S	B	U
N	K	E	P	H	I	M	S	Y	K	G	T	S	L	A
D	N	E	O	M	E	C	B	S	V	A	V	E	A	C
T	L	J	K	L	I	Y	E	N	A	N	T	M	C	L
O	Z	F	B	X	U	Q	M	D	Q	N	J	A	K	N
V	F	O	V	T	D	D	T	D	E	V	T	I	O	I
B	R	F	G	F	N	Z	S	Q	I	K	Z	D	U	A
P	A	D	O	C	L	O	H	O	C	L	A	E	T	R
C	O	M	M	U	N	I	C	A	T	E	K	M	D	B
V	W	J	N	T	Y	C	W	M	Z	O	Z	V	X	D
P	K	E	K	O	C	M	L	U	T	R	U	G	C	U

In spite of the \_\_\_\_\_ in the \_\_\_\_\_ that \_\_\_\_\_ will make life more fun, it actually is a \_\_\_\_\_.

Just one drink can \_\_\_\_\_ your \_\_\_\_\_'s ability to \_\_\_\_\_, \_\_\_\_\_ s and use good \_\_\_\_\_.

Alcohol can make you slur your speech, messing up your ability to \_\_\_\_\_ . If you drink a lot of alcohol, you might even \_\_\_\_\_.

## The Dangers of Alcohol

**Note:** Arrows indicate the direction to read the words. The highlighted letters are the first letters of the hidden words.

Alcohol	black out	brain	communicate	make decisions
Impair	depressant	judgment	media message	problem solve



In spite of the MESSAGE in the MEDIA that ALCOHOL will make life more fun, it actually is a DEPRESSANT.

Just one drink can IMPAIR your BRAIN's ability to MAKE DECISIONS, SOLVE PROBLEMS and use good JUDGMENT.

Alcohol can make you slur your speech, messing up your ability to COMMUNICATE. If you drink a lot of alcohol, you might even BLACK OUT.

## The Dangers of Alcohol

**Directions:** When the typist completed this message about the dangers of alcohol, she made some funny errors. First, she left out some important words. Second, when we asked her to correct the message, she scrambled the words she left out and put them below the message. See if you can correct her errors. Unscramble the words and then place them correctly in the message.

In spite of the \_\_\_\_\_ that \_\_\_\_\_  
will make life more fun, it actually is a \_\_\_\_\_ .

Just one drink can \_\_\_\_\_ your \_\_\_\_\_'s ability to \_\_\_\_\_,  
\_\_\_\_\_ s and use good \_\_\_\_\_ .

Alcohol can make you slur your speech, messing up your ability to  
\_\_\_\_\_. If you drink a lot of alcohol, you might even  
\_\_\_\_\_.

hloaolc \_\_\_\_\_

labck uot \_\_\_\_\_

ainrb \_\_\_\_\_

otmuinemacc \_\_\_\_\_

meak ssondciei \_\_\_\_\_

riimap \_\_\_\_\_

dsseepatrn \_\_\_\_\_

tduemngj \_\_\_\_\_

iaedm gesmesa \_\_\_\_\_

opermlb losev \_\_\_\_\_

## The Dangers of Alcohol

In spite of the media message that alcohol will make life more fun, it actually is a depressant.

Just one drink can impair your brain's ability to communicate, make decisions and use good judgment.

Alcohol can make you slur your speech, messing up your ability to make decisions. If you drink a lot of alcohol, you might even black out.

hloaolc	<u>alcohol</u>
labck uot	<u>black out</u>
ainrb	<u>brain</u>
otmuinemacc	<u>communicate</u>
meak ssondciei	<u>make decisions</u>
riimap	<u>impair</u>
dsseepatrn	<u>depressant</u>
tduemngj	<u>judgment</u>
iaedm gesmesa	<u>media message</u>
opermlb losev	<u>problem solve</u>